	A 1: A: B1-	
	Application No.	Applicant(s)
Notice of Allowability	10/604,519	BUTT ET AL.
Notice of Anowability	Examiner	Art Unit
	Alan A. Mathews	2851
Th MAILING DATE of this communication appeal All claims being allowable, PROSECUTION ON THE MERITS IS herewith (or previously mailed), a Notice of Allowance (PTOL-85) NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RI of the Office or upon petition by the applicant. See 37 CFR 1.313	(OR REMAINS) CLOSED in this apport or other appropriate communication GHTS. This application is subject to	plication. If not included will be mailed in due course. THIS
1. This communication is responsive to		
2. The allowed claim(s) is/are <u>1-20</u> .		
3. The drawings filed on 28 July 2003 are accepted by the Ex	aminer.	
4. ☐ Acknowledgment is made of a claim for foreign priority una) ☐ All b) ☐ Some* c) ☐ None of the: 1. ☐ Certified copies of the priority documents have 2. ☐ Certified copies of the priority documents have 3. ☐ Copies of the certified copies of the priority documents have International Bureau (PCT Rule 17.2(a)). * Certified copies not received: `Applicant has THREE MONTHS FROM THE "MAILING DATE" noted below. Failure to timely comply will result in ABANDONM THIS THREE-MONTH PERIOD IS NOT EXTENDABLE. 5. ☐ A SUBSTITUTE OATH OR DECLARATION must be subm INFORMAL PATENT APPLICATION (PTO-152) which give 6. ☐ CORRECTED DRAWINGS (as "replacement sheets") must (a) ☐ including changes required by the Notice of Draftspers 1) ☐ hereto or 2) ☐ to Paper No./Mail Date (b) ☐ including changes required by the attached Examiner's Paper No./Mail Date	been received. been received in Application No cuments have been received in this of this communication to file a reply ENT of this application. itted. Note the attached EXAMINER bes reason(s) why the oath or declarate the submitted. son's Patent Drawing Review (PTO-	national stage application from the complying with the requirements 'S AMENDMENT or NOTICE OF tion is deficient.
Identifying indicia such as the application number (see 37 CFR 1. each sheet. Replacement sheet(s) should be labeled as such in t		
7. DEPOSIT OF and/or INFORMATION about the deposit attached Examiner's comment regarding REQUIREMENT		
Attachment(s) 1. ☑ Notice of References Cited (PTO-892) 2. ☐ Notice of Draftperson's Patent Drawing Review (PTO-948)	6. ☐ Interview Summary Paper No./Mail Dat	e .
 Information Disclosure Statements (PTO-1449 or PTO/SB/0 Paper No./Mail Date 7/28/03 & 7/30/05 	8), 7. Examiner's Amendo	nen/Comment
4. Examiner's Comment Regarding Requirement for Deposit	<u> </u>	ent of Reasons for Allowance
of Biological Material	9. ☐ Other <i>O</i> CC	en Ca Matheus
	Al	an A. Mathews imary Examiner

U.S. Patent and Trademark Office PTOL-37 (Rev. 1-04) Application/Control Number: 10/604,519

Art Unit: 2851

REASONS FOR ALLOWANCE

1. The following is an examiner's statement of reasons for allowance:

The prior art of record does not disclose or suggest deflecting one or more of the orders of energy beams of the projected mask pattern at an obtuse angle to prevent the one or more deflected order beams from reaching the image plane, while permitting at least one order of the beams of the projected pattern to reach the image plane and form the projected pattern on the substrate in combination with all the other steps recited in independent claim 1.

The prior art of record does not disclose or suggest diffracting zeroth order beams of the projected mask pattern image to an extent that prevents the zeroth order beams from reaching the substrate, while permitting higher order beams of the projected mask pattern image to reach the substrate in combination with all the other steps recited in independent claim 8.

The prior art of record does not disclose or suggest a pupil filter for modifying the projected mask pattern, the pupil filter having an optical element adapted to deflect one or more of the orders of energy beams of the projected pattern at an obtuse angle to prevent the one or more deflected order beams from reaching the image plane, while permitting at least one order of the beams of the projected pattern to reach the image

Application/Control Number: 10/604,519

Art Unit: 2851

plane and form the projected pattern on the substrate in combination with the other elements recited in independent claim 14.

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Alan A. Mathews whose telephone number is (571) 272-2123. The examiner can normally be reached on Monday through Friday from 8:00 AM to 4:30 PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Judy Nguyen can be reached on (571) 272-2258. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Art Unit: 2851

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Alan A. Mathews

alan a Matheus

Primary Examiner Art Unit 2851

AM